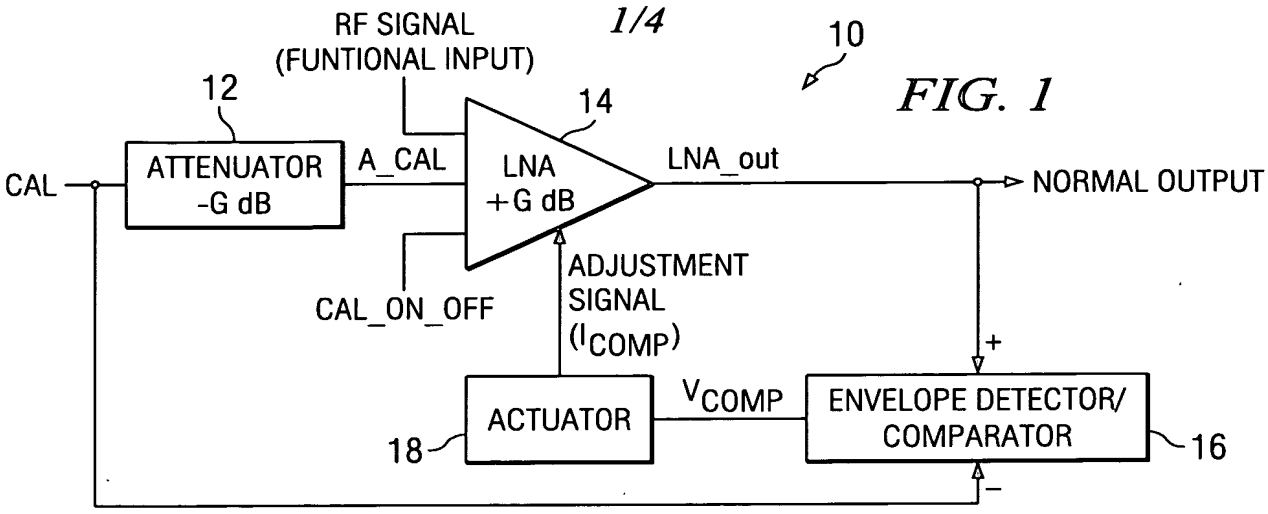



FIG. 1

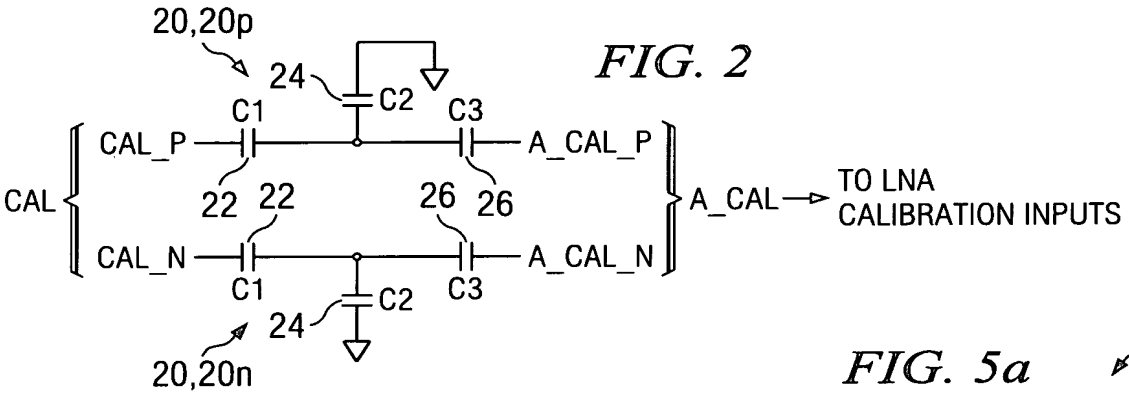



FIG. 2

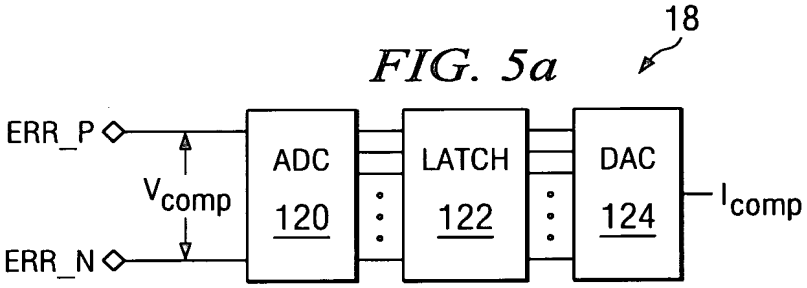



FIG. 5a

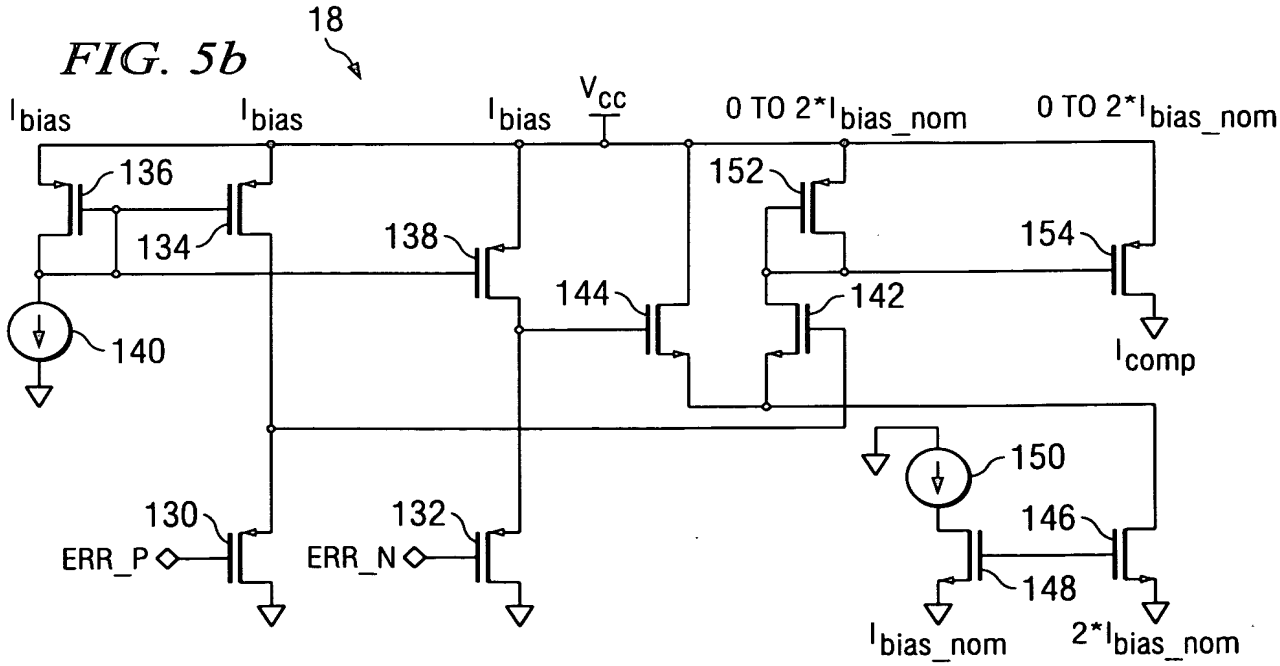



FIG. 5b

FIG. 3a

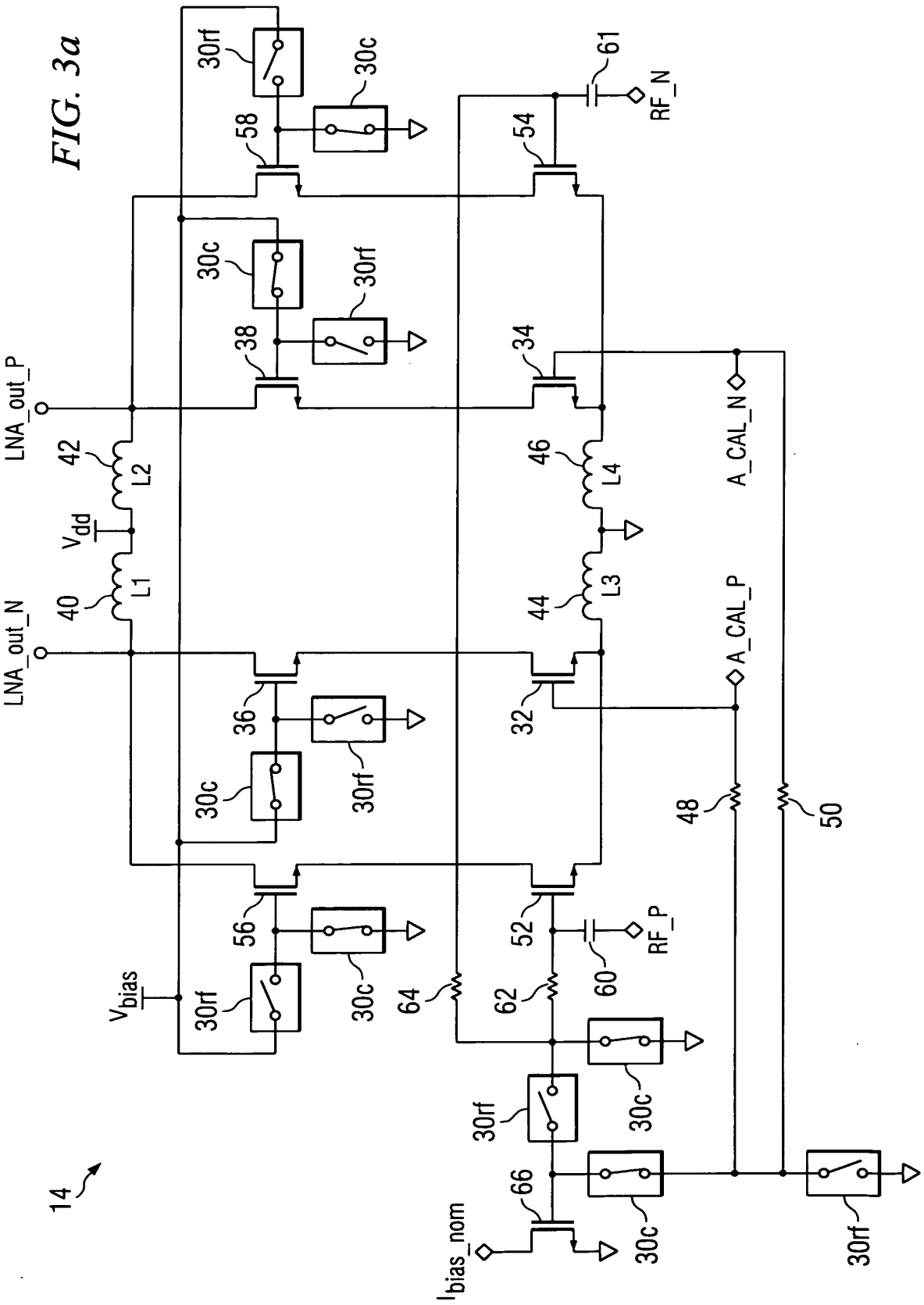

14
LNA_out_P
LNA_out_N
$V_{dd}$
$V_{bias}$
$I_{bias_nom}$
RF_N
RF_P
A_CAL_N
A_CAL_P
L1
L2
L3
L4
30rf
30c
32
34
36
38
40
42
44
46
48
50
52
54
56
58
60
61
62
64
66

FIG. 3b

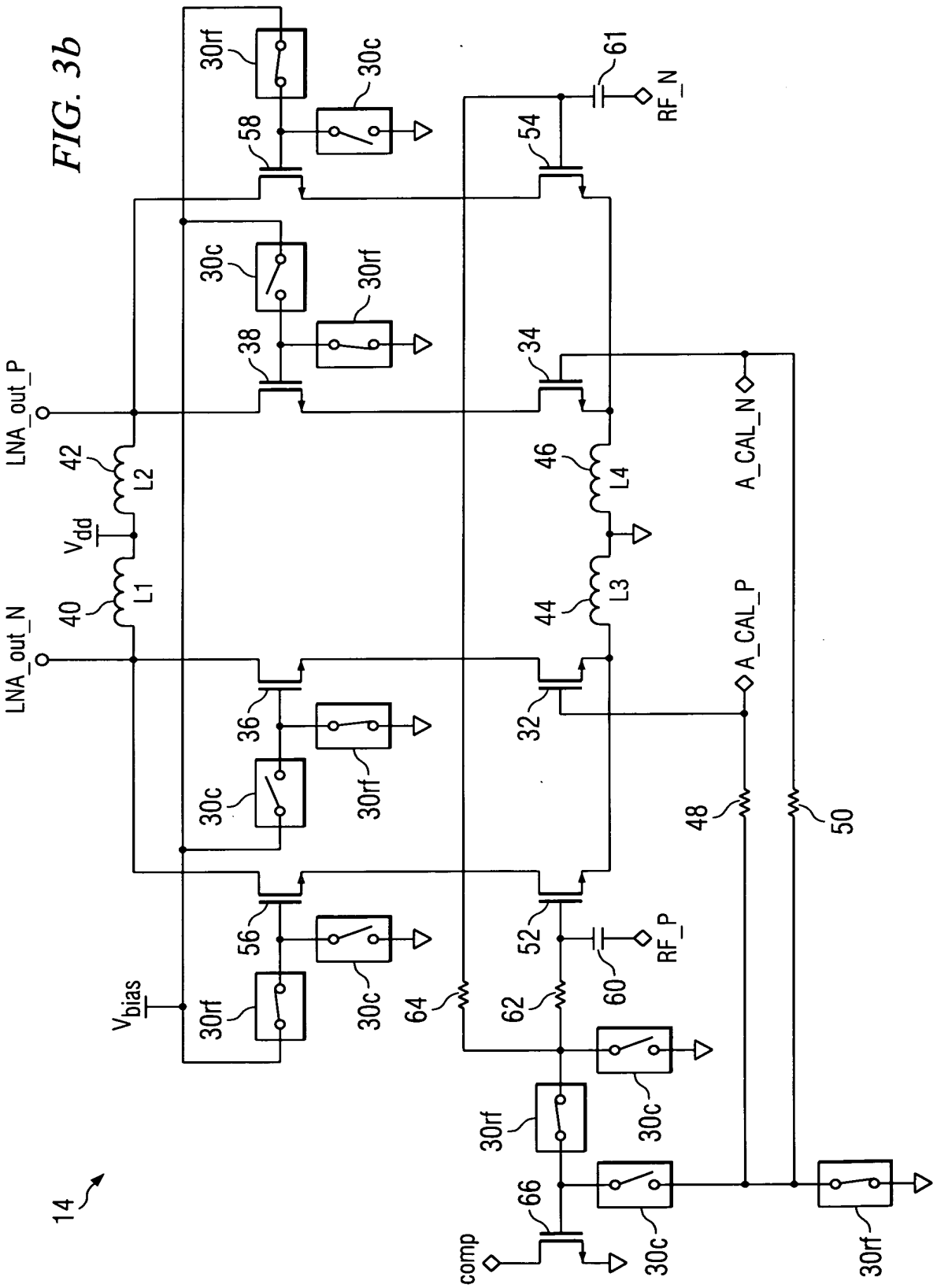
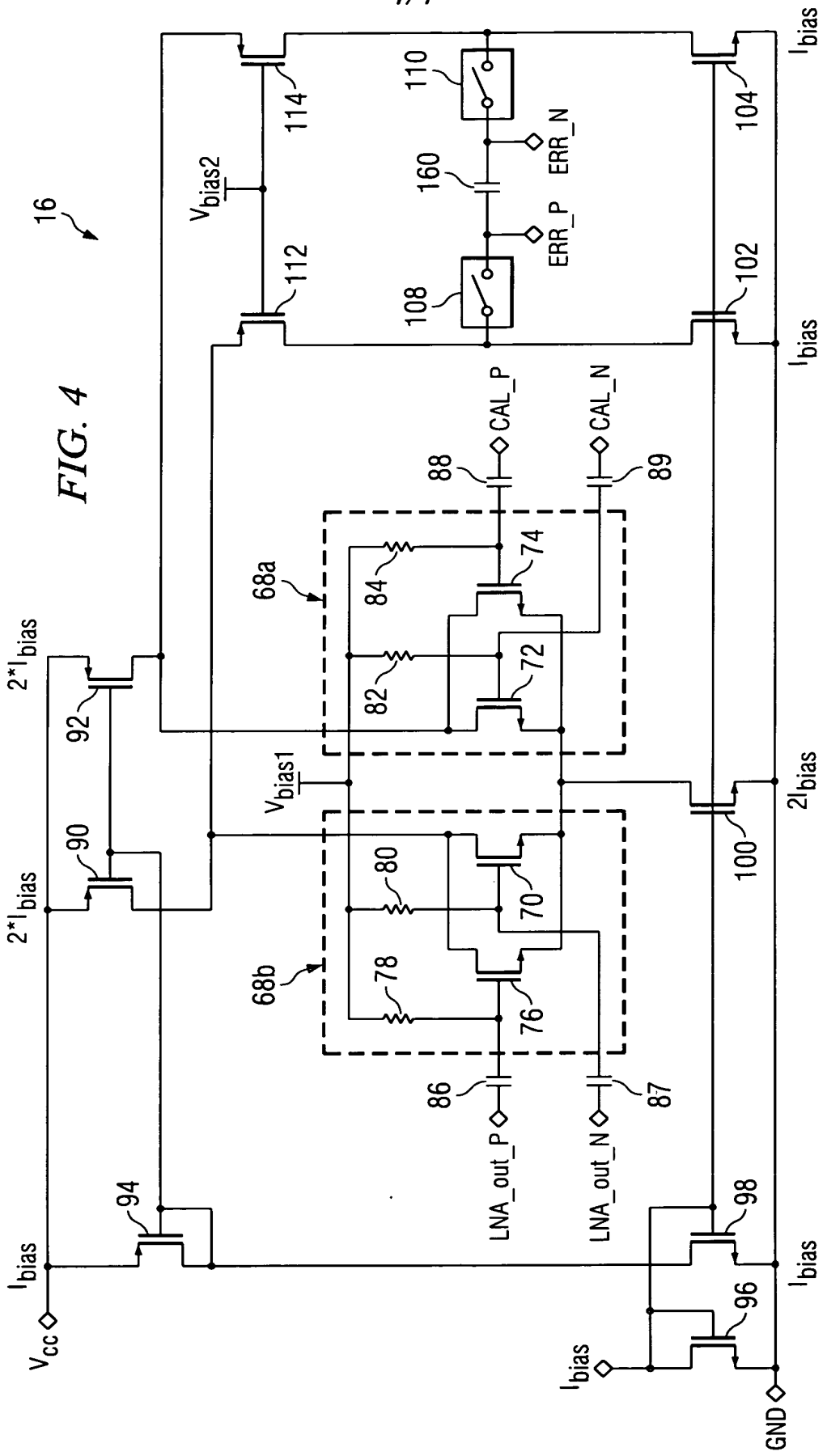

14
LNA_out_P
LNA_out_N
$V_{dd}$
$V_{bias}$
$I_{comp}$
RF_N
RF_P
A_CAL_N
A_CAL_P
L1
L2
L3
L4
30rf
30c
32
34
36
38
40
42
44
46
48
50
52
54
56
58
60
61
62
64
66

FIG. 4


16
$V_{bias2}$
$V_{bias1}$
$I_{bias}$
$2*I_{bias}$
$2I_{bias}$
$V_{cc}$
GND
ERR_N
ERR_P
CAL_P
CAL_N
LNA_out_P
LNA_out_N
68a
68b
70
72
74
76
78
80
82
84
86
87
88
89
90
92
94
96
98
100
102
104
108
110
112
114
160